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10/736,959	12/15/2003	Myung Chul Song	2060-3-88	4462
35864 7590 978902098 LEE, HONG, DEGERMAN, KANG & SCHMADEKA 660 S. FIGUEROA STREET			EXAMINER	
			ABDI, AMARA	
Suite 2300 LOS ANGELES, CA 90017		ART UNIT	PAPER NUMBER	
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Application No. Applicant(s) 10/736,959 SONG ET AL. Office Action Summary Examiner Art Unit Amara Abdi 2624 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 05 May 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) 11-14 is/are withdrawn from consideration. 5) Claim(s) 10.15 and 16 is/are allowed. 6) Claim(s) 1-9 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 15 December 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/S5/08)
Paper No(s)/Mail Date ______

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Art Unit: 2624

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 05, 2008 has been entered.

Applicant's response to the last office action, filed May 05, 2008 has been entered and made of record.

Remarks:

Applicant's argument with respect to claims 1-9, have been fully considered, but they are not persuasive.

Applicant argues that Jung fails to teach or suggest "control information is developed responsive to movement occurring in the images".

However, in response to applicant's argument, the Examiner disagrees, because Jung discloses the calculating of coordinates of each of parts of the recognized object (see the Abstract, line 22-24), which may be read as the command control that occurs after each individual's movement.

in more precision, each individual's movement such as lips, blinking of eyes, or nodding of head will comprise the calculation of coordinates of each of parts of the

Art Unit: 2624

recognized object, and at the same time, the user will input a command transmission, such as a picture information, a particular alphanumeric character, or an icon, that will be correlated to each coordinate of parts of recognized object.

Therefore, claims 1 and 7 are still not in condition for allowance.

Claims, 2-6, and 8-9 depend from claims 1 and 7 respectively; therefore, they are not in condition for allowance.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jung et al. (KR 10-2002-17576) in view of Hirano et el. (US-PGPUB 2005/0221856).

(1) Regarding claim 1:

Jung et al. disclose a motion capture system, comprising:

a photograph apparatus connected to the terminal (See the Abstract, line 9-13);

an image processing unit for processing images produced by the photographic apparatus (See the Abstract, line 16-24); wherein control information is developed responsive to moving occurring in the images (See the Abstract, line 22-24), (the calculating of coordinates of each of parts of the recognized object is read as the command control that occurs after each individual's movement)

Art Unit: 2624

an operational controlling unit for corresponding an operational function of the terminal to the control information (See the Abstract, line 27-28).

Jung et al. do not explicitly mention a mobile communication terminal.

Hirano et el., in analogous environment, teaches a cellular terminal image processing system, where using the mobile communication terminal (paragraph [0069], line 1-2).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the system of Hirano et el., where using a mobile communication terminal, in the system of Jung et al. in order to obtain a highly convenient mobile-terminal –type translation systems, mobile terminals, and servers for translation (paragraph [0012], line 2-4).

(2) Regarding claim 2:

Jung et al. further disclose the system, where the image processing unit compares at least one initialization value with at least one corresponding value from the control information (See the Abstract, line 27-28), (it is read that the digital signal processor compares (by analyzing) at least one initialization value with at least one corresponding value from the coordinates of each part of the recognized object)

(3) Regarding claim 3:

Jung et al. disclose all the subject matter as described in claim 2 above.

Jung et al. do not explicitly mention the system, where the user sets the initialization value.

Art Unit: 2624

Hirano et el., in analogous environment, teaches a cellular terminal image processing system, where the specialized dictionary categories can be designated by a user (paragraph [023], line 4-5), (the designating by a user of the specialized dictionary categories is read as the same concept as the setting of the initialization value by the user.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the system of Hirano et el., where the user sets the specialized dictionary categories, in the system of Jung et al. in order to obtain a highly convenient mobile-terminal –type translation systems, mobile terminals, and servers for translation (paragraph [0012], line 2-4).

(4) Regarding claim 4:

Jung et al. further disclose the system, where the image processing unit detects a first difference between the at least one initialization value and the at least one corresponding value (See the Abstract, line 27-28), (it is read that the digital signal processor detects (by analyzing) a first difference between the at least one initialization value and the at least one corresponding value from the coordinates of each part of the recognized object).

(5) Regarding claim 5:

Jung et al. further disclose the system, where the control information comprises the first difference between the at least one initialization value and the at least one corresponding value processed from the image (See the Abstract, line 26-28), (the control information is read as the coordinate of each part of the recognized object)

Art Unit: 2624

(6) Regarding claim 6:

Jung et al. disclose all the subject matter as described in claim 5 above.

Jung et al. do not explicitly mention the system, where the user sets the first operational function of the terminal to correspond to the first difference.

Hirano et el., in analogous environment, teaches a cellular terminal image processing system, where the specialized dictionary categories can be designated by a user (paragraph [023], line 4-5), (the designating by a user of the specialized dictionary categories is read as the same concept as the setting of the first operational function).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the system of Hirano et el., where the user sets the specialized dictionary categories, in the system of Jung et al. in order to obtain a highly convenient mobile-terminal –type translation systems, mobile terminals, and servers for translation (paragraph [0012], line 2-4).

(7) Regarding claim 7:

Jung et al. disclose a motion capture method, comprising:

photographing an object to produce images (See the Abstract, line 9-13);

processing the images for control information (See the Abstract, line 16-24), (the control information is read as the motion information).

setting an operational function to correspond to the control information (See the Abstract, line 26); and

wherein the control information is developed responsive to movement occurring

Art Unit: 2624

in the images (See the Abstract, line 22-24), (the calculating of coordinates of each of parts of the recognized object is read as the command control that occurs after each individual's movement)

Jung et al. do not explicitly mention the mobile communication terminal, and the operating of the mobile communication terminal.

Hirano et el., in analogous environment, teaches a cellular terminal image processing system, where using the mobile communication terminal (paragraph [0069], line 1-2), and operating the mobile communication terminal (paragraph [0036], line 11-14). (The Examiner assumes that Jung et al. disclose, "based on the control information").

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the system of Hirano et el., where using a mobile communication terminal, in the system of Jung et al. in order to obtain a highly convenient mobile-terminal –type translation systems, mobile terminals, and servers for translation (paragraph [00121, line 2-4).

 Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jung et al. and Hirano et el., as applied to claim 7 above, and further in view of Neal (US-PGPUB 2003/0058236).

Jung et al. disclose a motion capture method, comprising:

extracting a first value from the processed image (See the Abstract, line 26), (the extracting of motion information is read as the same concept as the extracting of the first value from the processed image);

Art Unit: 2624

developing first control information (See the Abstract, line 27); and

generating a control information signal based on the first control information (See

the Abstract, line 28-29).

Jung et al. do not explicitly mention the method, where comparing the first value

to an initialization value; and determining the first difference between the first value and

the initialization value.

Neal, in analogous environment, teaches a method and apparatus for auto-

generation of horizontal synchronization of an analog signal to digital display, where

comparing the first value to an initialization value (paragraph [0037], line 4-6), (the

comparing of the pixel clock to the feature edges is read as the same concept as the

comparing of the first value to an initialization value); and determining the first difference

between the first value and the initialization value (paragraph [0011], line 4-7), (the

determining of the difference between the initialization value and the adjacent ones of

pixels is read as the same concept as the determining the first difference between the

first value and the initialization value).

It would have been obvious to one having ordinary skill in the art at the time the

invention was made to use the system of Neal, where determining the difference, in the

system of Jung et al. in order to have an efficient method and apparatus for

automatically adjusting a clock and phase for incoming RGB signal suitable for display

on fixed position pixel display such an LCD (paragraph [0009], line 1-4).

Art Unit: 2624

 Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jung et al., Hirano et el., and Neal, as applied to claim 8 above, and further in view of Nishi et al. (US-PGPUB 2002/018525).

Jung et al., Hirano et el., and Neal disclose all the subject matter as described in claim 8 above. Furthermore, Jung et al. disclose the extracting a first value from the images (See the Abstract, line 26), (the extracting of motion information is read as the same concept as the extracting of the first value from the images).

Jung et al., Hirano et el., and Neal do not explicitly mention the system, where setting one value as the initialization value.

Nishi et al., in analogous environment, teaches an image decoding method, where setting one value as the initialization value (paragraph [0136], line 1-5).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the system of Nishi et al., where setting one value as the initialization value, in the system of Jung et al. in order to reduce the delay time from the data input, and display the decoded images satisfactorily, even when the decoding process is started from a P frame (paragraph [0042], line 6-8).

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Independent claim 10 is allowable over the prior art of record.

Claims 15, and 16 depend from claim 10, therefore, are allowable.

Art Unit: 2624

Independent claim 10, recites the limitation of:

"wherein the producing the second image further comprises:

attributing a first value to a first midpoint located between the eyes

attributing a second value to a second midpoint located between a pair of shoulders.

attributing a first comprehensive value to a vector drawn through the first and second midpoint; and

attributing a second comprehensive value to an angle formed by the vector and a horizontal line joining the shoulders".

The combination of these features as cited in the claims with other limitations of the claims, are neither disclosed nor suggested by the prior art of record.

The closest reference of US-PGPUB 2003/0063778 to Rowe et al. discloses a method for operating a mobile communication terminal. However, this reference either by itself or by combination with other references does not teach the limitations that the producing of the second image further comprises:

attributing a first value to a first midpoint located between the eyes

attributing a second value to a second midpoint located between a pair of shoulders

attributing a first comprehensive value to a vector drawn through the first and second midpoint; and

Art Unit: 2624

attributing a second comprehensive value to an angle formed by the vector and a

horizontal line joining the shoulders.

Contact Information

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Amara Abdi whose telephone number is (571)270-1670.

The examiner can normally be reached on Monday through Friday 8:00 Am to 4:00 PM

E.T..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jingge Wu can be reached on (571) 272-7429. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Amara Abdi/

Examiner, Art Unit 2624

Art Unit: 2624

/Brian Q Le/ Primary Examiner, Art Unit 2624